

1. A delayed decision feedback sequence estimation diversity receiver comprising:

means for combining impulse response sequences in transmission paths while canceling delayed wave components having the largest amplitudes in delayed wave component sequences in impulse response sequences in the respective transmission paths; and

2. A delayed decision feedback sequence estimation diversity receiver comprising:

delayed wave detectors for respectively detecting components having the largest amplitudes from delayed wave component sequences in impulse response sequences as
25 output signals from said respective transmission path

a first delayed wave canceler for outputting a new impulse response sequence obtained by combining the output signals from said respective transmission path estimators while canceling delayed wave components having the largest amplitudes on the basis of the output signals from said respective delayed wave detectors;

an estimation region detector for detecting a timing
for signal estimation from the new combined impulse
10 response sequence;

a second delayed wave canceler for receiving the output signals from said delayed wave detectors and outputting a new reception signal obtained by combining the reception signals while canceling delayed wave components having the largest amplitudes; and

a delayed decision feedback sequence estimator for performing signal estimation upon receiving the new combined reception signal, the new combined impulse response sequence, and the timing signal output from said estimation region detector, and outputting the estimation result.

3. A receiver according to claim 2, wherein signal estimation ability is improved by combining antenna diversity with said delayed decision feedback sequence estimator.

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the step of combining impulse response sequences in transmission paths while canceling delayed wave components

the step of performing signal estimation on the basis
5 of a new impulse response sequence generated by combining
the impulse response sequences.

[illegible]